

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

UTILITY PATENT  
APPLICATION TRANSMITTAL LETTER

Mail Stop PATENT APPLICATION  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Customer Number 21839

Sir:

Enclosed for filing is the utility patent application entitled:

Gas Supplying Apparatus for Atomic Layer Deposition

by the following named inventor(s):

Jae-Cheol LEE; Ran-ju JUNG; and Youn-taek RYU

☒ Applicant(s) suggests Figure 3 for inclusion on the front page of the patent application publication and patent.

☒ Applicant(s) requests that the published application include the following assignment information:  
Samsung Electronics Co., Ltd., Gyeonggi-do, Republic of Korea

☐ Small entity status is claimed.

Also enclosed are:

**DRAWINGS:** 7 sheets of formal drawings        sheets of informal drawings

**DECLARATION:** ☐ will follow ☒ executed, is enclosed ☐ unexecuted, is enclosed

**ASSIGNMENT:** ☒ is enclosed ☐ will follow

**CLAIM FOR  
PRIORITY  
UNDER  
35 U.S.C.  
§ 119 and/or  
365:**

☒ is made in the declaration

☐ is hereby made as follows

Country	Appl. No.	Filing Date MM-DD-YYYY
Republic of Korea	10-2003-0044542	07-02-2003

☒ certified copy(ies) enclosed

☐ certified copy(ies) will follow

**OTHER PAPERS:** ☒ A General Authorization for Petitions for Extensions of Time and Payment of Fees.

☐ An Information Disclosure Statement.

☒ An Application Data Sheet (ADS).

☐ \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

☒ The filing fee has been calculated as follows ☐ and in accordance with the enclosed preliminary amendment:

CLAIMS					
	No. of Claims		Extra Claims	Rate	Fee
Basic Application Fee (1001)					\$ 770.00
Total Claims	30	MINUS 20 =	10	x \$18.00 (1202) =	\$ 180.00
Independent Claims	1	MINUS 3 =	0	x \$86.00 (1201) =	\$ 0.00
If multiple dependent claims are presented, add \$290.00 (1203)					\$ 0.00
Total Application Fee					\$ 950.00
<input type="checkbox"/> Small Entity Status claimed - subtract 50% of Total Application Fee					\$ 0.00
Add Assignment Recording Fee of \$40.00 (8021) if Assignment document is enclosed.					\$ 40.00
<b>TOTAL APPLICATION FEE DUE</b>					<b>\$ 990.00</b>

☐ This application is being filed without a filing fee. Issuance of a Notice to File Missing Parts of Application is respectfully requested.

- ☐ Charge \_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \_\_\_\_\_ is enclosed for the fee due.
- ☒ Charge \$ 990.00 to credit card. Form PTO-2038 is attached.
- ☒ The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Please address all correspondence concerning this application to:

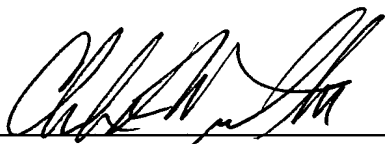
Burns, Doane, Swecker & Mathis, L.L.P.  
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Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

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Filed: April 14, 2004

By   
Charles F. Wieland III  
Registration No. 33,096

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Lee, Jae-cheol et. al.

Application No.:

Filing Date: April 14, 2004

Title: Gas Supplying Apparatus for Atomic Layer Deposition

Group Art Unit:

Examiner:

Confirmation No.:



GENERAL AUTHORIZATION FOR PETITIONS  
FOR EXTENSIONS OF TIME AND PAYMENT OF FEES

Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.136(a)(3), the U.S. Patent and Trademark Office is hereby provided with a general authorization to treat any concurrent or future reply requiring a petition for an extension of time for its timely submission as containing a request therefor for the appropriate length of time.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. § 1.17 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

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